

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Pool Indian Basin			Formation Cisco			County Eddy			
Initial X		Annual		Special		Date of Test 3-2-65			
Company Standard Oil Co. of Texas				Lease Bogle Flat Unit 3			Well No. 1		
Unit G	Sec. 3	Twp. 22	Range 23		Purchaser None				
Casing 5-1/2"	Wt. 14#, 15.5#, 17#	I.D. 4.892 - 17#	Set at 7825'		Perf. 7269'	To 7386'			
Tubing 2-3/8"	Wt. 4.6#	I.D. 1.995	Set at 7206'		Perf. Open Ended				
Gas Pay:	From 7240'	To 7706'	L 7240'	G 7706'	GL 7240'	Bar. Press. 13.2			
Producing Through:			Casing X		Type Well - Single - Braden head - G.G. or G.O. Dual Gas - Single				
Date of Completion 2-21-65		Packer Baker Model "D" @ 7200'			Reservoir Temp. 128°F				
OBSERVED DATA									
Tested Through: Prover ☐ Choke ☐ Meter ☒								Type of Taps Flange	
FLOW DATA						TUBING DATA		CASING DATA	DURATION OF FLOW HR.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.
1.						2302			
2.	3.000	2.000	230	16	72	2275	64	Pkr	--
3.	3.000	2.000	245	52	68	2205	63	Pkr	--
4.	3.000	2.000	515	60	68	2160	63	Pkr	--
5.	3.000	2.000	725	76	68	2040	63	Pkr	--
6.									
FLOW CALCULATIONS									
No.	Coefficient (24 Hour)	$\sqrt{h_w P_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15.025 psia		
1.	27.52	62.37	243.2	.9887	.9697	1.021	1680.2		
2.	27.52	136.38	358.2	.9924	.9697	1.032	3727.4		
3.	27.52	178.04	528.2	.9924	.9697	1.047	4936.7		
4.	27.52	236.85	738.2	.9924	.9697	1.069	6705.3		
5.									
PRESSURE CALCULATIONS									
Gas-Liquid Hydrocarbon Ratio 91,744 cf/bbl.					Specific Gravity Separator Gas .638				
Gravity of Liquid Hydrocarbons 59 deg.					Specific Gravity Flowing Fluid --				
F _e 1.812 (1-e ^{-S}) --					P _c 2880.2 P _c ² 8295.6				
No.	P _w BHP P _t psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.	2872.2	8249.5				8249.5	46.1		99.4 99.4
2.	2852.2	8135.0				8135.0	160.6		98.1 98.1
3.	2838.2	8055.4				8055.4	240.2		97.1 97.1
4.	2800.2	7841.1				7841.1	454.5		95.2 95.2
5.									

ABSOLUTE POTENTIAL: **53,000** MCFPD; n **.6745**

COMPANY **Standard Oil Company of Texas** WITNESSED **Steve Rayburn**

ADDRESS **Box 1009** COMPANY **Tom Hansen Co.**

AGENT AND TITLE **Larry Hill, Engineer**

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